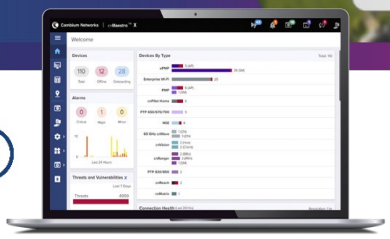
# ePMP 3000 FSR 5.1–5.9 GHz

## ePMP 3000 FSR Quick Look

- High-performance, scalable and reliable access points for fixed wireless broadband
- MU-MIMO for up to 1.2 Gbps capacity for more than 120 subscribers
- Low TCO with 3-year hardware warranty
- Covers 5.1 GHz to 5.97 GHz
- Interoperable with all Force 300 Subscriber Modules and supports backward compatibility to Force 180/200/200L




### High Performance, Scalability, Reliability

Cambium Networks' ePMP™ product line has set the standard for high performance, scalability, and reliability in harsh interference environments, all at a compelling price.

The ePMP 3000 FSR 5.1–5.9 GHz series of access points (AP) is the third generation based on 802.11ac Wave 2 techology. These APs interoperate with Force 300 Subscriber Modules (SM) and support backward compatiblity.

ePMP 3000 APs can deliver up to 600 Mbps aggregate to each Force 300 SM. A sophisticated scheduling and QoS engine combined with TDD synchronization allows the it to deliver consistently high-quality service plans to a large number of end users.

ePMP 3000 FSR 5.1–5.9 GHz can deliver 1.2 Gbps serving 120 or more subscribers. Featuring 4x4 MU-MIMO and dual overlapping sectors, this AP can transmit to 2 SMs at the same time, effectively doubling the capacity of 2x2 systems and in the process, increasing link budgets by 3 dB with downlink beamsteering.

The AP can be fitted with either a 90° MU-MIMO sector antenna or a 60° MU-MIMO horn antenna. For additional interference mitigation, the AP supports dynamic filtering for neighboring channel interference. With TDD synchronization, ePMP 3000 networks can scale to thousands of end users leveraging a small number of channels

### cnMaestro Network Management

All ePMP 3000 APs are managed with cnMaestro™ Network Management (free cnMaestro or subscription cnMaestro X), and networks can be planned easily and accurately with our free LINKPlanner.

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## Access Point Specifications

| | |
|---|---|
| **Channel Width** | 20 | 40 | 80 MHz |
| **Proprietary Physical Layer** | 4x4 MUMIMO/OFDM |
| **Channel Spacing** | Configurable in 5 MHz increments |
| **Frequency Range*** | Wide-band operation<br>5100–5970 MHz |
| **MAC Layer** (Media Access Control) | Cambium proprietary |
| **Ethernet Interfaced** | 100/1000 BaseT, rate auto negotiated, 802.3at compliant and Aux SFP port |
| **Supported Powering Methods** | 56 V PoE (included), standard 802.3at PoE Supply, or CMM5 with 56 V and 5 pin to 7 pin crossover cable adapter |
| **Protocols Used** | IPv4/IPV6 , UDP, TCP, IP, ICMP, SNMPv2c, HTTPs, STP, SSH, IGMP snooping |
| **Network Management** | HTTPS, SNMPv2c, SSH |
| **VLAN** | 802.1Q with 802.1p priority |

*Allowable frequencies and bands are dictated by individual country regulations.

## Performance

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|---|---|
| **Subscribers per Sector** | Up to 120 |
| **ARQ** | Yes |
| **Nominal Receive Sensitivity** (w/FEC) **@20 MHz Channel** | MCS 0 -92<br>MCS 9 -68 |
| **Nominal Receive Sensitivity** (w/FEC) **@40 MHz Channel** | MCS0 -89<br>MCS9 -64 |
| **Nominal Receive Sensitivity (w/FEC) @80 MHz Channel** | MCS0 -86<br>MCS9 - 61 |
| **Modulation Levels** (Adaptive) | MCS 0 (BPSK) to MCS 9 (256 QAM-5/6) |
| **GPS Synchronization** | Yes, via internal GPS or Cambium Sync |
| **QoS** (Quality of Service) | Three-level priority (voice, high, low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority<br>DS0<br>DSF |

## Link Budget

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|---|---|
| **Transmit Power Range** | 0 to +32 dBm (combined, to regional EIRP limit) (1 dB interval) |
| **Antenna** | Sector antenna available: Part # C050910D301A<br>Optional smart antenna for UL beamforming: Part #C050900D020A |

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## Physical

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|---|---|
| Surge Suppression* | 1 joule integrated |
| Environmental | IP55 |
| Temperature | -30°C to 55°C (-22°F to 131°F) |
| Weight | 0.7 kg (1.5 lb) without bracket |
| Dimensions (Dia x Depth) | 22.2 x 12.4 x 4.5 cm (8.75 x 4.9 x 1.75 in) without brackets |
| Power Consumption | 25W Maximum** |
| Input Voltage | 44V to 59V |
| Sector Antenna Connection | 4 x 50 ohm<br>SMA<br>GPS puck included in package |
| Beamforming Antenna Connection | 2 x 50 ohm, RP (reverse polarity) SMA, DC coupled (powering antenna) |
| GPS Antenna Connection | 1 x 50 ohm |

*30 V Gigabit surge suppressor recommended for optimal surge protection: Part # C000000L065A.
**The maximum power consumption of the AP is the same regardless of whether the optional Smart Beamforming Antenna is equipped or not. This is because the beamforming antenna draws its power during the uplink cycle when the AP power consumption is not at its maximum.

## Security

| | |
|---|---|
| Encryption | All models: 128-bit AES (CCMP mode) |

## Certifications

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|---|---|
| FCCID | Z8H-89FT0024 |
| Industry Canada Cert | 109W-0024 |
| CE | See Cambium website for Declaration of Conformity |

## Ordering Information

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|---|---|
| C050911A101A | ePMP 3000 5 GHz Access Point Radio FSR 5.1-5.97 GHz (ROW) (US cord) |
| C050911A201A | ePMP 3000 5 GHz Access Point Radio FSR 5.1-5.97 GHz (ROW) (EU cord) |

### ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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